



## User's Manual



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**Website: [www.fleetminder.com.au](http://www.fleetminder.com.au)**

**Tracking URL: <http://tracking.fleetminder.com.au/fleetfinder>**

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## 1.0 INTRODUCTION

### *Congratulations on your purchase of fleetfinder Gold!*

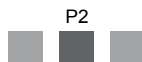
fleetfinder GOLD is an exciting Australian designed product that enables you to personally take control of the security and tracking of your assets.

The fleetfinder GOLD system works independently, but has Inputs and Outputs, which means it can be connected to any existing alarm system for alarm notification or additional triggers. The Inputs and Outputs can be configured to control a range of different features. The fleetfinder GOLD has a variety of different ways of reporting an event, or reporting to a command. The fleetfinder GOLD is fitted with a GSM/GPRS module that allows for GPRS and SMS reporting.

When using GPRS, the fleetfinder GOLD will log data on our tracking website, for easy reviewing by fleet managers, or owners. The fleetfinder GOLD reporting can be set to many different intervals, for tracking accuracy. For SMS reporting, the fleetfinder GOLD, can either report the co-ordinates to the tracking website, or can report a link for a map, that can be viewed on any GPRS mobile phone.

Unlike other tracking products on the market, fleetfinder GOLD use by SMS does not require a subscription to a base monitoring service for basic functions. However, in most cases, we recommend that fleet managers subscribe to our web service. The vehicle history is available in a range of formats online and retrievable at any time via our optional subscription service.

**NOTE:** For the full features of the online tracking feature, please refer the Online tracking manual.



## 2.0 PACKAGING CONTENTS

Before commencing installation please make sure all components listed here are accounted for. In the packaging you should have.

- 1 x fleetfinder Gold unit -1
- 1 x GPS / GSM antenna -2
- 1 x fleetfinder GOLD Screen -3
- 1 x Screen interface cable -4
- 1 x Wiring harness -5
- 1 x Screen stand + mount -6
- 1 x Screen charger -7
- 1 x owner's manual -8
- 1 x Help switch -9
- 1 x Diagnostic LED -10
- 1 x Temp sensor cable -11
- 1 x Fuel sensor cable -12
- 1 x RFID scanner -13
- 2 x RFID cards -14
- 1 x Backup battery -15

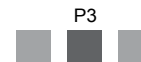


Optional accessories can be supplied on request

## 3.0 PRECAUTIONS

### IMPORTANT:

Make all wiring connections to the vehicle and antenna connections to the correct sockets BEFORE connecting the main plug to fleetfinder GOLD. (Refer to the step by step Installation manual)





It is strongly recommended that the units SIM card is first registered, contains credit and is tested before installation is commenced. Testing will require a valid SIM service. For GPRS online tracking, the SIM card **MUST** be GPRS enabled. When installing the GPS antenna, make sure that the coaxial cable does not get bent or crimped. Always keep fleetFinder's phone number confidential and account paid up for pre-paid services. Remember your fleetfinders PIN & phone number, no one else should know them. For Online tracking, please ensure that the SIM Card is GPRS enabled (*For more information on this please contact your SIM car service provider*)

Outputs are NOT recommended for use to directly or indirectly immobilize an operating vehicle. Immobilizing a vehicle in motion is extremely dangerous. The general purpose outputs are to be used to disable the vehicle's starter motor only.

This device is not to be used for unauthorised monitoring or tracking. Do not operate this device where mobile phones or radio transmitters are not permitted. Do not operate on aircraft. Do not operate near sensitive electronics such as engine, brake or air-bag systems.

#### • **Electrical safety:**

Designed to work from 12 volt or 24 volt DC only. Use 5 amp inline fuse.

#### • **Explosive Atmosphere:**

The fleetminder GOLD uses the GSM network, and it is not advisable to request tracking during refuelling, at blast sites or at chemical sites etc.

#### • **Medical Equipment:**

Some medical devices such as pacemakers may be inhibited by GSM signals. Check with a doctor or medical equipment manufacturers for more advice on this issue.

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#### • **Aircraft safety:**

When transporting this equipment by air, ensure the unit is totally disabled, by removing the SIM card from the SIM card slot. And ensuring the Red power LED is switched off. (If the Red LED is flashing, press and hold reset button for 4 seconds, until all lights switch off.)

#### • **Other Precautions:**

##### **Outputs:**

- The outputs are rated at 300mA max.
- As default the outputs are set to trigger a low. (ground)
- Due to outputs being limited to current, we recommend using a Relay for outputs.
- The outputs can be configured for a latch (permanent switch) circuit, a pulse (800mS pulse) circuit (normally used for central locking circuits) or cycle circuit (normally used for flashing indicators)

**NOTE: Cycle will only last for 30 seconds.**

- The outputs are most commonly used for Unlocking doors, Sounding horn and disabling starter motor, but can be used for almost anything.

##### **Inputs:**

- The inputs can be connected to almost any electronic circuit, however please note that there are 2 positive triggers (+12V or +24V) inputs, and 1 negative trigger (GND) input.

**Refer to the Installation manual for more information.**

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## 4.0 OPERATING REQUIREMENTS

### • Environment

Do not install fleetfinder GOLD in direct sunlight or directly under any areas exposed to direct sunlight or extreme heat. fleetfinder GOLD incorporates sensitive electronics and is to be installed in the vehicles cabin only.

Keep the unit installed in a secure location that is to be free of dust, and moisture. For a stealth install it is recommended that the fleetfinder GOLD is kept away from any radio antennas or speakers, as it may indicate that there is a GSM network connection present to the vehicle operator.

### • Power

fleetfinder GOLD operates on a 12 volt or 24 volt supply only. If fleetfinder GOLD has a voltage higher than the operating voltage applied then the device will fail to operate and could cause internal damage to the unit. If the power supplied is below the minimum to operate, the unit will send a warning, if programmed to do so, and may switch to backup battery power.

See fleetfinder GOLD specifications.

The built in backup power supply allows fleetfinder GOLD to continue to operate and alert you if your vehicles battery power is severed. The backup battery is float charged by your vehicles electrical system.

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### • GPS antenna location

fleetfinder GOLD is able to determine the exact location of your vehicle by the use of the incorporated GPS receiver. For the GPS to work most effectively, the external GPS antenna must be located in a position with as much view of the sky as possible. The GPS Antenna will generally operate through non metallic objects. Some suggestions include high up under the dash and below the rear parcel shelf. The black face of the antenna is the side which must face skyward. Ensure before completing the installation that the antenna is secured firmly in place.

Before picking a location in your vehicle for the GPS antenna, it is best to first connect the GPS antenna to the fleetfinder GOLD and apply power. Shortly after powering on fleetfinder GOLD you will observe the green satellite LED on the unit turn on, this means the unit is receiving GPS data.

If this does not happen, place the antenna on the roof of your vehicle, making sure that your vehicle is outdoors. Wait until the LED comes on and stays on. This now indicates fleetfinder GOLD has a fix on your vehicles location. Please be patient as with a cold start (first power up) this process of satellite acquisition can take up to 5 minutes (in worst case). In some cases where the control of the fleetfinder GOLD is set to SMS as a default, and the unit has started up successfully (RED and GREEN lights on, with the YELLOW LED flashing or still) you are able to find out the GPS status by simply sending a "SYS" sms command from the Primary declared phone number (see command list to see how to set this, and for further instructions on the SYS command).

In the reply message you will see the status of the GPS.

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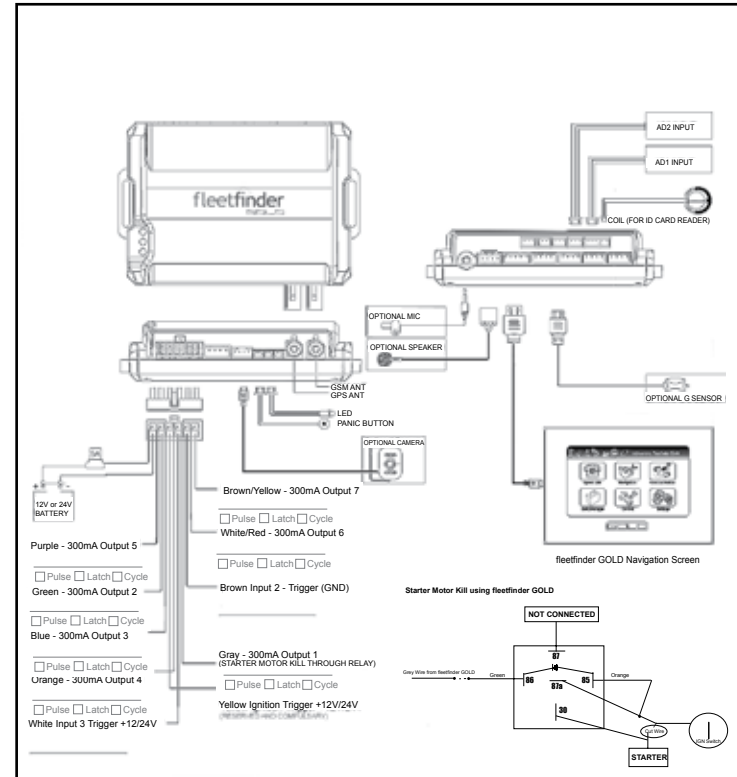
## 5.0 BASIC FUNCTIONS

FUNCTIONS	APPLICATIONS
<b>GPS</b>	GPS receiver will output a complete position, velocity, and time (PVT) solution in the NMEA Version 3.0 protocol
<b>GPRS, SMS</b>	GPRS uses standard TCP or UDP communication protocol. SMS can be turned on or off.
<b>5 inputs</b> (most common applications include ACC, Alarm trigger, and door trigger)	3 controllable inputs, INPUT1 (positive trigger) INPUT2 (negative trigger) INPUT3 (positive trigger) 2 reserved inputs Help switch trigger Temperature switch port AUX analogue input
<b>7 outputs</b> (usually used for flashing lights, disabling starter motor, and unlocking doors)	1. Gray wire (-300mA) 2. Green wire (-300mA) 3. Blue wire (-300mA) 4. Orange wire (-300mA) 5. Purple wire (-300mA) 6. White/Red wire (-300mA) 7. Brown/Yellow (-300mA)
<b>Help Switch</b>	Will send a report when the Help switch has been activated
<b>Standard Reporting</b>	Automatic report for tracking purpose: Fixed time report Fixed distance report
<b>Event Report</b> (SMS, and GPRS)	Temperature report Speeding report Low battery report Geo-fence trigger report Input trigger report, e.g. ALARM, ARM, ACC inputs, etc (fully customizable) ... Intelligent report G Force exceeded report.
<b>History data store</b> (hardware)	3,000 reports can be saved in unit, and read by the server at any time.

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## 6.0 WIRING DIAGRAM



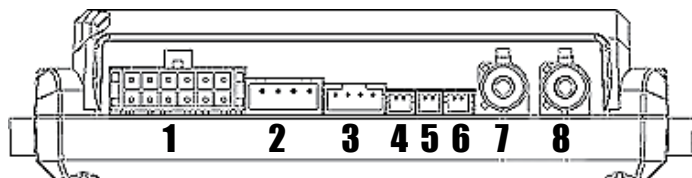
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## 7.0 PORTS EXPLAINED

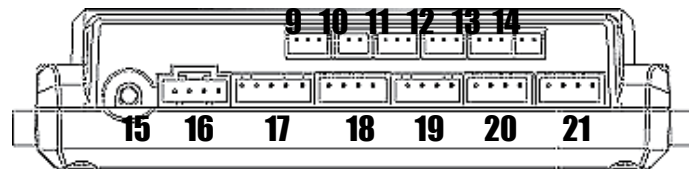
The fleetfinder GOLD has many additional ports that can be used for a variety of different functions. The ports required for additional inputs are explained below (Refer below port locations):

### PICTURE OF ALL PORTS (NUMBERED)



- 1 - Wiring Harness port (main harness)
- 2 - Remote Control Sensor (Not USED)
- 3 - Camera Input port (not USED)
- 4 - Help button port (used with the Panic Button)
- 5 - Status LED connection (used for the diagnostic LED)
- 6 - Not USED
- 7 - GPS Antenna connector
- 8 - GSM Antenna connector

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- 9 - Odometer sensor (Not USED)
- 10 - Buzzer (Not USED)
- 11 - Auxiliary sensor (Not USED)
- 12 - Analogue Input 2 (Used for Fuel sensor)
- 13 - Analogue Input 3 (Used for Temperature sensor)
- 14 - RFID Card Reader
- 15 - Voice Kit Microphone
- 16 - Voice Kit Speaker
- 17 - Communications Screen port
- 18 - RF Antenna (Not USED)
- 19 - Auxilliary Controller
- 20 - Serial Programming port
- 21 - Crash Sensor port

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## 8.0 ACCESSORIES

### • FUEL Sensor

The fleetfinder Gold system has the ability to connect to a Fuel Gauge in a vehicle and display the output on the Online User Interface. To Connect the Fuel sensor, please follow the instructions in the Installation Manual supplied.

**NOTE:** If the device was pre-ordered with no Fuel sensor included, please contact Fleetminder staff to enable this feature on the device.

### • TEMP Sensor

fleetfinder Gold system can be used with an additional Temperature sensor. The sensor has a temperature range from -25 to 105 Degrees Centigrade.

**NOTE:** If the device was pre-ordered with no TEMP sensor included, please contact fleetminder staff to enable this feature on the device.

### • RFID Card Reader

Driver tags, or RFID cards can be used with the fleetfinder GOLD system. The device allows up to 20 cards to be identified per device. The RFID card can be used for simple Driver Identification, or to directly immobilise the starter motor of a vehicle.

**NOTE:** To identify an RFID card on the system, please use the RFID Setup under the Setup tab on the user interface. The immobilisation feature can be enabled using the IMMOBILISE ON/OFF command as listed on the command list.

### • Voice Kit

An optional Voice Kit can be used with the fleetfinder Gold system. The Voice functionality is controlled by the Communications Button on the Screen.

### • Crash Sensor

The fleetfinder Gold system can work with an optional Crash sensor.

**NOTE:** If the device was pre-ordered with no crash sensor included, it can be set up using the GREPORT command (refer command list for full instructions)

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## 9.0 SMS SETUP *(unless preset from manufacturer)*

Please make sure you have activated your SIM card before proceeding and have disabled the message bank service. Ensure red LED indicator is on, and the yellow light is either on or flashing. If not, then check wiring.

### 9.1. Register your phone as the primary identity.

- Send SMS: PIN 0000

- Wait for response

### 9.2. Now change your PIN.

The factory default pin (or other defined pin) as with all other commands can only be changed from the primary identity.

To change the pin,

- Send SMS: NEWPIN 1234 *(where 1234 is your new PIN)*

- Wait for response

### 9.3. Set secondary identity *(only receives events)*

*(The secondary identity is used for receiving events only, not controlling the device)*

- Send SMS: PH2 +61423123456 *(where +61423123456 is the secondary contact number)*

- (send PH2 without a number, to turn this feature off)

- Wait for response (primary identity)

The fleetfinder GOLD will now respond to the secondary identity as well as the primary identity where an event has occurred. These events can include unconditional events, such as input, voltage or geofencing.

### 9.4. Send a map to primary phone number

- Send SMS: MAP

- Wait for response

fleetfinder Gold unit will provide a URL link. Map can be viewed through any GPRS phone.

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## 9.5 COMMAND LIST

Fleetfinder GOLD Command	Purpose	Default setting	Options	Example	SMS Response. (Queried Via SMS).
PIN XXXX	Pin number security, for the access of the Fleetminder. Also used for setting the primary identity. And firmware upgrade password.	PIN 0000 (Used to set the primary identity and firmware upgrade password.)	PIN XXXX (used to change the primary identity, as long as the PIN number is correct)	PIN 1234 will check the pin number in the unit, and if void, will ignore the message, but if correct, it will change the primary identity to the phone number where the message was sent from.	CFG:PIN XXXX (where XXXX is the pin number for the device)
NEWPIN	Used to change the pin number from the default setting	No default	NEWPIN XXXX where XXXX is the new 4 digit pin number	NEWPIN 1234 will change the pin number from the unit, as long as the message is sent from the primary identity.	CFG:NEWPIN XX(where XX is the new pin number)
PH2 XX	Sets the secondary number for event reporting.	No default	PH2 XX where XX is the secondary phone number, note. PH2 without the number, will disable this feature.	PH2 0412345678 will set the secondary number to 0412345678	CFG:PH2 XX (where x is the secondary number)
INPUTS	To set input parameters				
LABELIN N X (admin only)	Renames the label heading for an input	No default	Up to 16 characters for all 3 inputs. LABELIN N X where N is the number of the input (1-3), and X is the name for the input	LABELIN 1 Starter will set the label of input 1 to "Starter"	CFG:LABELIN N X (where n is the input number and x is the input name)
QUERYINLABEL N	Queries the Label settings for the inputs.	No default	QUERYINLABEL N where N is the input number (input 1 to 3)	QUERYINLABEL 1 will request the LABEL heading for Input 1	CFG:QUERYINLABEL N X (where n is the number of the input, and x is the label that is set for the input queried)
DELAYIN N T	To set a delay timer on an input trigger.	No default	Used to set a delay for input triggering, where N is the number of the input (1 -3) only, and T is the delay time in seconds.	DELAYIN 2 20 will set the input 2 delay time for 20 seconds, before sending an alert,	CFG:DELAYIN N T (where N is the input number, and T is the Time in seconds)
GPISMS N X (SMS Only)	To enable SMS alerting for a defined input.	No default	This feature is used to enable or disable SMS alerting for a particular input.	GPISMS 2 ON will enable sms alerting for Input 2.	CFG:GPISMS N X (where N is the number of the input and X is the status of the input(ON or OFF))
OUTPUTS	To set/enable the outputs				
SETGPO N L	Sets the outputs N for Latch		SETGPO 1 L - Will set output 1 for Latch	SETGPO 1 L - Will set output 1 for Latch	CFG:SETGPO N L (where N is the number of the input and L is the Latch setting)

Fleetfinder GOLD Command	Purpose	Default setting	Options	Example	SMS Response. (Queried Via SMS).
SETGPO N L	Sets the outputs N for Latch		SETGPO 1 L - Will set output 1 for Latch	SETGPO 1 L - Will set output 1 for Latch	CFG:SETGPO N L (where N is the number of the input and L is the Latch setting)
SETGPO N P	Sets the output N for Pulse.	This is default setting	SETGPO 1 P - Will set output 1 for Pulse	SETGPO 1 L - Will set output 1 for Pulse	CFG:SETGPO N P (where P is the number of the input and P is the Pulse setting)
		No default	SETGPO 1 C - Will set output 1 for Cycle	SETGPO 1 C - Will set output 1 for Cycle	CFG:SETGPO N C (where N is the number of the input and C is the Cycle setting)
LABELGPO N	Renames the label heading for an output	No default	Up to 16 characters for all 7 outputs. LABELGPO N where N is the number of the output	LABELGPO 1 Siren will set the label of output 1 to "Siren"	CFG:LABELGPO N X (where n is the input number and x is the input name)
QUERYOUTLABEL N	Queries the Label settings for the Outputs.	No default	QUERYOUTLABEL N where N is the input number (input 1 to 7)	QUERYOUTLABEL 1 will request the LABEL heading for Output 1	CFG:QUERYOUTLABEL N X (where n is the number of the output, and x is the label that is ser for the output queried)
GPO N ON	Enables/Disables outputs where N is the input number	Default setting is all outputs switched off.	GPO 1 ON - Will trigger output 1 to switch on.		CFG:GPO N [GPOLABEL] ON (where N is the output number)
GPO N OFF	Enables/Disables outputs where N is the input number	Default setting is all outputs switched off.	GPO 1 OFF - Will trigger output 1 to switch off.		CFG:GPO N [GPOLABEL] OFF (where N is the output number)
SPEED KKK	To notify the primary identity when the Speed limit is exceeded.	Default is off	SPEED KKK where KKK is the speed in Kmh. SPEED 00 disables Speed alerts.	SPEED 65 will trigger when the speed of vehicle goes over 65kmh.	CFG:SPEED X (where X is the speed in Kmh)
STATUS	Reports back with the features that are enabled on the Fleetminder.	No default			[UNIT ID],speed x,battery x%,ip x,port x,tow O,AD,GPO N O (where [unit id] is the unit ID, X is a number, AD is the AD setting (temperature or analogue), N is the output number, and O is the output status)
SYS	Reports back additional unit parameters, including the Voltage, GPS and GSM signal strength etc.	No default			[UNIT ID],Firmware V,GSM signal x%,GPS Status O,GPRS O,Voltage x% (where [UNIT ID] is the unit ID, V is the firmware version, x is a number value, and O is status ON /OFF)



Fleetfinder GOLD Command	Purpose	Default setting	Options	Example	SMS Response. (Queried Via SMS).
VOLTS VV (%)	Sets and enables the low voltage alert.	Default is off	VOLTS VV where VV is the voltage in percentage(12V application, 12V is 100%, and 24V application 24V is 100%, for use in 12V and 24V systems.	VOLTS 80 will set the low voltage warning to 80% of 12V in a 12V application (9.6V)	CFG:VOLTS x (where x is the percentage for battery status)
		Default is on		Turns feature off after low voltage alert has been triggered	CFG:VOLTS OFF
LOCATION	LOCATION command when sent alone will report the current location.	Invoked by user.			CFG:LOCATION
GPRS X	To turn GPRS mode off. SO only SMS mode will be enabled	No default	GPRS ON or GPRS OFF	GPRS OFF will turn GPRS reporting off. (If sms event reporting is switched off, this function should switch it back on.)	CFG:GPRS OFF
SETAPN XXXXXXXX(max 48 chars)	Where XXXXXXXXXX(up to 48 chars) is the APN (Access Point Name Telecommunications provider)	No default		SETAPN internet will set the APN to "internet"	CFG:SETAPN XX (where XX is the valid APN)
SETUSER UUUUUUU PP-PPPPPP	Where UUUUUUUU is the username, and PPPPPPP is the password. (the username and password are separated by a space) IF SETUSER is sent with no parameters, it should set the username and password to nothing.	No default		SETUSER neltronics access will set the Username as Neltronics, and the password as access	CFG: SETUSER UU PP (where UU is the user, and PP is the password)
SMSALLEVENTON	Command to enable the SMS reporting for events from the unit. So basically to be able to choose whether to have sms event reporting.	Depends on the GPRS connection	Will enable SMS event reporting for or: speed alert, tow away alert, geofence, voltage alert, input triggers (depending on GPISMS command), G trigger, AD input (1 and 2) trigger (all alerts) and stopped report.	SMSALLEVENTON will enable the sms reporting of events (conditional in options). Such as Geofences or input triggers. NOTE: Panic alert can not be turned off for SMS reporting	CFG:SMSALLEVENTON
SMSMAINEVENTON	Command to be able to control Grouped SMS events.	Default is on.	Will enable SMS event reporting for ONLY speed alert, tow away alert, gps antenna unplugged, geofence, voltage alert and input triggers (depending on GPISMS command), and only AD1 when set to Temperature for Max and Min reporting. Will not send alerts for	SMSMAINEVENTON will enable the sms reporting of events (conditional in options). Such as Geofences or input triggers. NOTE: Panic alert can not be turned off for SMS reporting	CFG:SMSMAINEVENTON



Fleetfinder GOLD Command	Purpose	Default setting	Options	Example	SMS Response. (Queried Via SMS).
		Depends on the GPRS connection	Will disable SMS reporting for events: 138 (tow away alert), 101 (overspeed), 142 (stopped), GEOFENCE alerts, Input TRIGGERS depending on GPISMS command, VOLTS reporting.	SMSEVENTOFF will disable all the sms reporting of events or input triggers (conditional in options). Will still respond to SMS commands. NOTE: Panic alert can not be turned off for SMS reporting	CFG:SMSEVENTOFF
MAP	Command to allow users, using the sms function only to view their vehicle on a map on their mobile phone using GPRS.	no default		MAP will invoke a response from the unit, that will provide a URL link, that can be viewed through any GPRS phone.	<a href="http://www.car minder.com.au/multi8.php?lat=S2734.5991&amp;lon=E15305.6573">http://www.car minder.com.au/multi8.php?lat=S2734.5991&amp;lon=E15305.6573</a> (where S2734.5991 and E15305.6573 are the coordinates that the unit is receiving from GPS, at the time the MAP message is sent.
REBOOT	This command is used when a unit needs to be restarted.	No default		REBOOT will cycle the power on the device to make it restart, in case it needs to be restarted;	CFG:REBOOT
SETAPN XXXXXXXX(max 48 chars)	Where XXXXXXXX(up to 48 chars) is the APN (Access Point Name Telecommunications provider)	No default		SETAPN internet will set the APN to "internet"	CFG:SETAPN XX (where XX is the valid APN)
SETUSER UUUUUUU PPPPPPP	Where UUUUUUU is the username, and PPPPPPP is the password. (the username and password are separated by a space) IF SETUSER is sent with no parameters, it should set the username and password to nothing.	No default		SETUSER neltronics access will set the Username as Neltronics, and the password as access	CFG: SETUSER UU PP (where UU is the user, and PP is the password)

## 9.6 SMS message format explained

The following information displays the format of an SMS message received from the device. The Message parameters are separated by a comma “,” and each part is explained below.

### SMS Format

**fleetfinder,Command,Current,080527,114236,S1234.7536,  
E11234.5678,000,44000000,CFG:LOCATION**

### • LABEL (fleetfinder)

The fleetfinder GOLD label is pre-set for online tracking and will be unique for every device. This usually consists of a 4 digit number that is used as a unique identifier.

### • EVENT (Command)

The event includes the reason that the SMS message was sent. In most cases, when a command has been sent to the device, it will respond with COMMAND, otherwise if an input trigger has occurred, it will respond with Input name, such as ACC, or DOOR.

**(Note: Input names can be set seperately, refer Command List)**



### • GPS FIX (Current)

Current indicates that the GPS data presented is current and indicates that the location provided is where your asset is now. Alternatively if your asset was outside and then went under cover (such as your vehicle being driven into a garage). Then this field will display LAST. In this case the location and the time of your fleetfinder GOLD the second before it went under cover is recorded. Both the CURRENT and LAST messages should be considered with the UTC time given in the next line. Satellite count.

### • UTC DATE/TIME (080527,114236)

This line contains the UTC date and time. An example is 080527,114236. This reads the date as year (08)/month(05)/day(27) format and the time 11 hours 42 minutes and 36 seconds or 11:42:36AM. You will need to add your time difference to determine your local time.

### • CO-ORDINATES(S1234.7536,e11234.5678)

This line presents the latitude and is in the form dd:minutes.minutes. eg: S1234.7536, and the longitude and is in the form ddd:minutes.minutes, eg:E11234.5678

### • SPEED(000)

If your vehicle is stationary then this line will show 000. However if your vehicle is moving, the exact speed will also be detailed.



- **UNIT STATUS(44000000)**

The last line (47000000) is irrelevant for SMS reporting, but will always appear as a summary. It confirms the message in a ASCII format to be recognized by the tracking server. It is kept in the reporting message for Status confirmation.

- **RESPONSE(CFG:LOCATION)**

This is the response to event command. In this case the response message was received due to the LOCATION command being sent. Every time that a message is sent in query to the fleetminder, it will respond with the command included in the message.



## 10.0 GPRS ONLINE TRACKING

*This section explains the GPRS online tracking. For further information, refer to the Complete Online Tracking Manual available from the help menu on the web interface.*

In most cases when the fleetfinder GOLD system is ordered, it will automatically be subscribed to our online tracking server. Our Tracking server is Web based, which means it can be accessed from any computer with an internet connection. For security purposes, a username and password is used. The unit automatically reports to the Tracking server, and logs all the data for reviewing. These reports can then be extracted into different formats such as pdf, or printed for reference. Real time Tracking is available, whilst also being able to use the replay a day feature, which will show the activity of a vehicle on a chosen day. The Tracking server can provide a variety of different reports, whilst also being able to send GPRS commands to control the inputs/outputs and request further information from the unit.

The reports that can be viewed from the Tracking server are explained in brief:

- **Vehicle Activity Report**

This function returns the user with an 'Activity Report' on the selected vehicle over a specified date range. The activities can include Ignition on/off, panic alert, input triggered etc.

- **Vehicle Site Report**

This function allows the user to view the 'Sites' that the vehicle fleet has visited on a per vehicle basis, per site basis, or a combination of both.



### • Vehicle Mileage Report

This function returns the user with a 'Mileage Report' on a specific vehicle, number of vehicles or all vehicles over a specified date and time range.

### • Vehicle Stop Report

This function returns the user with a 'Stop Report' on the selected vehicle over a specified date and time range.

### • Vehicle Trip Report

This function returns the user with a 'Trip Report' on the selected vehicle over a specified date and time range.

### • Vehicle Over-Speed Report

This function returns the user with a 'Over-speed Report' on the selected vehicle over a specified date and time range.

### • Vehicle Idle Report

This function returns the user with an 'Idle Report' on the selected vehicle over a specified date and time range.



## 11.0 TROUBLESHOOTING

The following LED conditions described below determine the unit operation.

RED LED	On solid state	unit powered by main power
	Flashing	unit operating under backup battery ( check vehicle power supply)
	Off	means there is no power to the unit (check fuse, and connection of the red and black wires.)
YELLOW LED	Flashing	means unit is registered on the network, and connected to the tracking server.
	On but not flashing	means the unit is registered on the network, but not connected via GPRS. – check APN, username and password (refer network provider for the APN, username and password) APN setting correct, but still not flashing - means that there is no credit on the account (if pre paid is used) or the account is disabled ( check with network provider to ensure the bill is upto date) ( To troubleshoot, remove the sim card from the device, and put it in a phone. Try to send a message.) If the problem persists, please call your Fleetminder manager.
	Off	means the device is unable to register onto the network. Please ensure the sim card is inserted correctly. And that the sim card is valid, and activated. In case there is a pin on the device, please ensure that the pin is removed (this can be done when a sim card is inserted in a phone, by accessing the security menu.)
GREEN LED	On	means that the device is able to get a current GPS location
	Off	means that the device is unable to get a current GPS fix. Please check the antenna location, and ensure that it has a clear view of the sky.



Further explanation of the LED functionality is described below:

<b>RED LED</b>	<p><b>Power indicator:</b> When the unit is powered on using main power, the led will be permanently on. When the main power is cut, the unit will switch to backup battery mode, the led will flash until the backup battery runs out of power.</p> <p><b>Troubleshooting:</b> Check that you have a valid 12V or 24V source connected to the device. The Red wire should be connected to the positive terminal, and the Black wire should be connected to the Ground terminal. If there is power applied to these wires, please check the inline fuse.</p>
<b>YELLOW LED</b>	<p><b>GSM / GPRS indicator:</b> The yellow led will flash when the device is connected to the tracking server with a valid GPRS connection. It will stay on continually when it is in sms mode only, or when the GSM is present but invalid APN, username and password have been set.</p> <p><b>Troubleshooting:</b> If the yellow light is not on at all, please ensure the GSM antenna is connected, and that the sim card is properly inserted, with the gold terminals facing the circuit board. Please ensure the terminals are clean, and the sim card clips into place appropriately. If this fails, please put the sim card into a phone, and make sure that it is registered, and that you are able to send a message from the phone. Please ensure the sim pin on the sim card has been disabled (this can be done in the security settings in a mobile phone). If the yellow light is on, but not flashing, please ensure that you have the correct APN, username and password set for the network. The APN is usually different for each network provider, and can be found by calling the telecommunications provider, some telecommunications providers require a username and password to be declared, please ensure that you have these details. The APN, username and password can be set only from the primary defined phone number (please refer to the Users Manual for setting primary identity). The primary phone needs to send commands for setting the APN, username and password (these commands can be found in the command list in the users manual)</p>
<b>GREEN LED</b>	<p><b>GPS indicator:</b> This led will stay on when there is a valid GPS fix. When there is no GPS reception, the led will not be lit.</p> <p><b>Troubleshooting:</b> Please ensure that the GPS antenna (gold connector) is connected, and that it is mounted in a suitable spot with clear view of the sky. The vehicle must be outside to be able to get a GPS fix.</p>

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## 12.0 SCREEN FUNCTIONS

### fleetfinder GOLD Touch Screen Functions



#### 12.1 Speed Dial Button



This option allows you to quickly and easily access the Speed Dial phone numbers that are registered (max of 4 numbers per device). The Speed Dial numbers can only be set up from the server by authorised personnel.

#### 12.2 Navigation Button



The Navigation Button on the device allows for Turn by Turn Navigation on the device using the integrated map.

#### 12.3 Communication Button



The Communication Button is your access to communicate using the standard mobile phone features.

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## Sub-Menu



### 12.3.1 Calling



There are 4 choices:

- Dial a phone number
- View recently dialed numbers
- View received calls
- View missed calls

### 12.3.2 Message



There are 4 choices:

- Create a new message
- View the message sent box
- View the message inbox
- Delete messages from Inbox/Sent

### 12.3.3 Contacts List



There are 4 choices:

- Review Current contacts
- Create New contacts
- Modify Existing contacts
- Delete Existing contacts

### 12.3.4 Settings



There are 4 choices:

- Adjust Speaker volume
- Adjust Microphone volume
- Setup pre-defined messages
- Setup pre-defined points

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## 12.4 Task Manager Button



This feature allows for easy access to the Job Dispatch functions.

## Sub-Menu



### 12.4.1 Pre-defined Messages



This option displays all the pre-defined messages on the device. These are commonly set up from the server.

- Double clicking on the message will allow you to send it to your pre-defined Speed Dial contacts, an alternate mobile number or the server.

### 12.4.2 Pre-defined Points



This option displays all the pre-defined point locations on the device. These are commonly set up from the server.

- Double clicking on a point will allow you to navigate to the point using the built in Navigation.

### 12.4.3 View Navi Message



This option allows for viewing of Previous navigation commands that were sent from the server, and use them to navigate again.

## 12.5 Control Button

This feature is used for easy access to the most commonly used functions of advising the server on status

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- **Duty on:** Will set the device to ON Duty (Working Time)
- **Duty off:** Will set the device to OFF Duty (Finished working)
- **Panic:** Will inform the server, and primary SMS number of a HELP alert
- **ID Pin Override:** Used for testing the PIN Override
- **Self-geofence on:** Will set an immediate geofence around a current location
- **Self-geofence off:** Will turn the immediate geofence off

## 12.6 Settings Button

This feature is where all the device setup is made. Some features are locked for the system administrator, and require a unique PIN that is sent on the device.

### Sub-Menu



- **Language:** Allows you to choose Language for the display.
- **Power:** Will show the current battery status for the fleetfinder Gold Screen.
- **Voice:** Will allow setting of the volume for the device.
- **System:** Will show the system status.

- **Entertainment:** Allows for browsing videos and images from the SD Card.
- **Date/Time:** Allows for the setup of the Date & Time.
- **Calibrate:** Allows for Touch Screen Calibration.
- **PC Setup:** Allows for Device Configuration (Locked for Administrator)
- **FM TX:** Allows for using the Vehicle speaker system by tuning into set frequency, rather than using the speaker system provided.
- **Tool Kit:** Allows for Debugging information from the system (Locked for Administrator)



## 13.0 TECHNICAL DATA

### fleetfinder Gold Specifications

<b>Electrical</b>	<p>POWER SUPPLY: DC 12V ~ DC 24V</p> <p>POWER CONSUMPTION:</p> <ul style="list-style-type: none"> <li>• 45mA Operating current (GPRS online)</li> <li>• 100mA Operating current (GPRS transmission)</li> <li>• 140mA Operating current (GPRS peak)</li> <li>• 22mA Sleeping mode current</li> </ul> <p>BACKUP BATTERY: 3.7V 1900mA/H</p>
<b>Operating Temp.</b>	Temperature in operating: -20°C~ +55°C
<b>GPS</b>	<p>Channels: 20 parallel tracking</p> <p>Operating Frequency: L1-1575MHz</p> <p>Sensitivity:</p> <ul style="list-style-type: none"> <li>• Tracking: -159 dBm</li> <li>• Acquisition (Cold Start): -142 dBm</li> <li>• Position accuracy (Horizontal): &lt; 2.5m CEP autonomous &lt; 2.0m CEP SBAX</li> </ul> <p>Time to first fix:</p> <ul style="list-style-type: none"> <li>• Hot start 1: &lt;1s</li> <li>• Warm start 2: &lt;32s</li> <li>• Cold 3: &lt;35s</li> </ul> <p>Standard GPS Software</p> <p>NMEA message switchable: GGA, GSA, GSV, VTG, RMC, GLL</p>





## fleetfinder Gold Specifications

<b>GPRS</b>	Frequency Range (MHz): 850/900/1800/1900 GPRS Connectivity: <ul style="list-style-type: none"><li>• GPRS multi-slot class 10</li><li>• GPRS mobile station class B</li></ul> SIM card interface: 3V
<b>Inputs</b>	<ul style="list-style-type: none"><li>• Digital Input 1 &amp; Digital Input 2 &amp; Digital Input 3</li><li>• Analogue Input 1</li><li>• Analogue Input 2</li><li>• Voice Kit</li><li>• RFID Scanner</li><li>• Panic Switch</li><li>• Camera Kit</li></ul>
<b>Outputs</b>	<ul style="list-style-type: none"><li>• Output 1 (pulse, latch or cycle)</li><li>• Output 5 (pulse, latch or cycle)</li><li>• Output 2 (pulse, latch or cycle)</li><li>• Output 6 (pulse, latch or cycle)</li><li>• Output 3 (pulse, latch or cycle)</li><li>• Output 7 (pulse, latch or cycle)</li><li>• Output 4 (pulse, latch or cycle)</li></ul>

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## 14.0 WARRANTY

The fleetfinder GOLD is guaranteed for a period of twelve months from date of purchase against defects in materials and workmanship under conditions of normal use.

To obtain warranty support, return the unit together with proof of purchase to the place of purchase.

### • Limitations of Warranty

Fleetfinder accepts no responsibility for any actions of the purchaser or user of the equipment where the equipment is not used for its intended purpose and isn't installed in accordance with the instructions provided in this manual.

fleetfinder does not accept responsibility of any consequential effects or breaches resulting from the use of this equipment in a manner which constitutes a criminal act or breach of privacy.

**Note:** Device and antenna shall be installed on distance greater than 20cm from human body.



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